ARTYUSHIN, Stepan Petrovich; SIMONOV, K.A., redaktor; ROMANOVA, L.A., redaktor; SABITOV, A., tekhnicheskiy redaktor

[Flotation machines in coal dressing plants] Flotatsionnye mashiny na ugleobogatitel'nykh fabrikakh. Moskva, Ugletekhizdat, 1955. 45 p. (MLRA 9:2)

(Coal preparation)

FISHMAN, Mikhail Aleksandrovich, dotsent, kandidat tekhnicheskikh nauk; VERKHOVSKIY, I.M., retsenzent; SIMONOV, K.A., retsenzent; SLAVIN, G.P., kandidat tekhnicheskikh nauk, retsenzent; MARGOLIN, I.Z., redaktor; YEZDOKOVA, M.L., redaktor izdatel'stva; ERKLOV, A.P., tekhnicheskiy redaktor

[Principles of ore dressing] Osnovy obogashcheniia poleznykh iskopaemykh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 279 p. (MLRA 9:11)
(Ore dressing)

OGLOBLIN, Nikolay Dmitriyevich; THUSHLEVICH, Igor' Viktorovich; SIMONOV, K.A., otv.red.; GARBER, T.N., red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Technical control in coal preparation plants] Tekhnicheskii kontrol' na ugleobogatitel'nykh fabrikakh. Moskva, Ugletekhizdat, 1958. 210 p. (MIRA 12:2)

(Coal preparation--Quality control)

RUDENKO, Konstantin Gerasimovich, dotsent; SIMONOV, K.A., dotsent, otv.red.; RYKOV, N.A., red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Principles of coal preparation and briquetting] Osnovy obogashcheniia i briketirovaniia uglei. Moskva, Ugletekhizdat, 1958. 302 p. (MIRA 12:1)

(Coal preparation) (Briquets (Fuel))

SIMONOV, Konstantin; LYUBECHANSKAYA, N.I., red.; IL'INA, L.F., tekhn.red.

[Prospectors for Bukhara gas] Razvedchiki bukharskogo gaza. Tashkent, Gos.izd-vo khudozh.lit-ry UzSSR, 1960. 30 p. (MIRA 14:3)

(Bukhara region--Gas, Natural)

SAGRADYAN, Aza L'vovna, kand. tekhn. nauk; SUVOROVSKAYA, Natal'ya Aleksandrovna, doktor khim. nauk; SIMONOV, K.A., otv.red.; MAKUSHINA, Ye.A., otv. red.

[Control of the technological process in flotation plants] Kontrol' tekhnologicheskogo protsessa flotatsionnykh fabrik. Izd.2., perer. i dop. Moskva, Nedra, 1964. 426 p. (MIRA 18:2)

SAGRADYAN, Aza L'vovna, kand. tekhn. nauk; SUVOROVSKAYA, Nata[illegible] Aleksandrovna, doktor khim. nauk; SIMONOV, K.A., otv. red.; MAKUSHINA, Ye.A., otv. red.

[Control of the technological process in flotation plants] Kontrol' tekhnologicheskogo protsessa flotatsionnykh fabrik. Izd.2., perer. i dop. Moskva, Nedra, 1964. 424 p. (MIRA 18:1)

Simonov, Konstantin Mikhaylovich
Zhivyye I Mertvyye: Roman. Moskva, Sovetskiy Pisatel'
1960.
528 p.

CHERNENKO, M.B.; LUKIN, Yu.B.; GUSEV, K.M.; KUDREVATYKH, L.A.; MAKARENKO, Ya.I.; SATYUKOV, P.A., red.; STEPANOV, V.P., red.; SELYUK, S.I., red.; SUTOTSKIY, S.B., red.; ABALKIN, N.A., red.;KOZEV, N.A., red.; AVERCHENKO, B.Ye., red.; SOBOLEV, L.S., red.; SIMONOV, K.M., red.; POLEVOY, B.N., red.; GALIN, B.A., red.

[Heroes of our times] Geroi nashikh dnei. Moskva, Izd. gazety "Pravda," 1961. 619 p. (MIRA 14:11)
(Labor and laboring classes)

SIMONOV, K.S.

SIMONOV, V.G.; SIMONOV, K.S.; BIKCHENMAY, M.A., redaktor; KHITHOV, P.A., tekhnicheskiy redaktor.

[Manual for railroad dispatch and yard clerks] Rukovodstvo tekhnicheskomu kontorshchiku i spischiku vagonov. Moskva, Gos.transp. zhel-dor. izd-vo, 1952. 131 p. (MLRA 7:11)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Railroads--Train dispatching)

SIMONOV, K.S., inzh.

Intensification of station service is the basic resource in accelerating the circulation of railroad cars. Sbor. trud. Akad. zhel. transp. no.1:60-71 '52. (MIRA 11:3)
(Railroads--Station service)

Simonov, K.S.

TODRES, V.N.; SIMONOV, K.S.; FARBEROV, Ya.D., redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Handbook for railroad make-up men and yard couplers] Rukovodstvo sostaviteliu poezdov i stsepshchiku vagonov. Moskva, Gos. transport. zheleznodorozh. izd-vo, 1953. 218 p. [Microfilm] (MLRA 7:11)
(Railroads--Making-up trains)

SIMONOV, K.S.

The schedule of train movements is the basis for improving freight haulage. Zhel.dor.transp. 37 no.12:25-29 D '55. (MLRA 9:5)

1. Glavnyy inzhener Glvnogo upravleniya dvizheniya. Ministerstva putei soobshcheniya.
(Railroads--Traffic)

SIMONOV, Kirill Stepanovich, kandidat tekhnicheskikh nauk; PRIGOROVSKIY, V.F., inzhener, redaktor; KANDYKIN, A.Ye., tekhnicheskiy redaktor

[Manual for make-up crews] Pamiatka sostavitel'skoi brigade. Izd. 2-oe, dop. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 82 p. (MLRA 10:1)

(Railroads--Making up trains)

SIMONOV, K.S.

Operation of the railroads and tasks for transportation research in 1958. Vest. TSNII MPS 17 no.1:1-8 F '58. (MIRA 11:3)

1. Zamestitel' predsedatelya Nauchno-tekhnicheskogo soveta Ministerstva putey soobshcheniya.
(Railroads)

SIMONOV, K.S., kand. tekhn. nauk

Railroad transportation on the eve of the 21st Congress of the CPSU. Vest. TSNII MPS 17 no.8:3-7 D '58. (MIRA 12:1)

1.Zamestitel' predsedatelya Nauchno-tekhnicheskogo soveta Ministerstva putey soobshcheniya.
(Railroads)

SIMONOV, K.S., kand.tekhn.nauk

British railroads. Zhel.dor.transp. 40 no.4:81-90 Ap '58.
(MIRA 13:4)

(Great Britain--Railroads)

SIMONOV, K.

New requirements-develop new methods of work. NTO no.10:27-28 O '59. (MIRA 13:2)

1.Zamestitel' predsedatelya TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva zheleznodorozhnogo transporta.
(Railroad research)

SIMONOV, K.S., kand.tekhn.nauk

Swedish railroads. Zhel.dor.transp. 42 no.1:83-88 Ja '60. (MIRA 13:5)
(Sweden--Railroads)

KOCHNEV, Fedor Petrovich, doktor tekhn.nauk, prof.; MAKSIMOVICH, Boris Mikhaylovich, kand.tekhn.nauk, dotsent; SOTNIKOV, Isaak Bentsionovich, kand.tekhn.nauk, dotsent; SIMONOV, K.S., kand.tekhn.nauk, retsenzent; MANYUKOV, G.S., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Problems concerning the organization of train movement] Voprosy organizatsii dvizheniia poezdov. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 211 p. (MIRA 14:6)

(Railroads—Traffic)
(Railroads—Signaling)

SIMONOV, K.V.; UZBERG, A.I.; VAYNSHTEYN, O.Ya.

For a successful realization of the resolutions of the July Plenum of the Central Committee of the CPSU.
Ogneupory 25 no.9:389-397 '60. (MIRA 13:8)

1. Vostochnyy institut ogneuporov (for Simonov). 2. Zavod "Magnezit" (for Uzberg). 3. Chelyabinskiy metallurgicheskiy zavod (for Vaynshteyn).
(Dolomite)

S/131/60/000/009/002/008/XX
B021/B052

AUTHORS: Bron, V. A., Simonov, K. V., Rigmant, N. M.

TITLE: Production and Use of Blocks for Heat Insulation

PERIODICAL: Ogneupory, 1960, No. 9, pp. 400 - 404

TEXT: The Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (All-Union Scientific Research Institute of Metallurgical Heat Engineering) developed blocks for heat insulation of the tubing of industrial furnaces. They consist of segments of fireclay, kaolin, or magnesite-chromite attached to metal rings. The binding material used was clay, water glass, aluminiferous cement, and sulfite-alcohol vinasse. Compressive strength was between 71 and 198 kg/cm^2; porosity varied from 18.4 to 21.5%. The destruction of fireclays and kaolin set in after a fortnight, whereas magnesite-chromite insulation lasted 4-6 months with oil firing, and 12 months with gas firing. Used blocks of magnesite-chromite were chemically and petrographically examined. Accumulation of

Card 1/2

BRON, V.A.; SIMONOV, K.V.; CHIKUROV, I.F.; UZBERG, A.I.

Magnesite brick with a spinel bond for the walls of high capacity electric arc furnaces. Ogneupory 27 no.8:345-350 '62. (MIRA 15:9)

1. Vostochnyy institut ogneuporov (for Bron, Simonov). 2. Zavod "Magnezit" (for Chikurov, Uzberg).
(Firebrick)

BRON, V.A.; SIMONOV, K.V.; PIVNIK, L.Ya.; PETROV, V.K.; BARVINSKIY, B.V.

"Lining the walls of 100-ton arc furnaces with magnesite brick and a spinel binding. Stal' 23 no.6:519-523 Je '63. (MIRA 16:10)

SIMONOV, K.V.

Block heat insulation of pipes for the hearth of continuous furnaces. Metallurg 10 no.5:28-29 My '65. (MIRA 18:6)

1. Vostochnyy institut ogneuporov.

SIMONOV, K.V.; NAZAROV, K.S.

Calcining dolomite from the Lisiya Mountain deposit in a rotary kiln. Ogneupory 30 no.3:24 '65. (MIRA 18:5)

1. Vostochnyy institut ogneuporov (for Simonov). 2. Magnitogorskiy metallurgicheskiy kombinat (for Nazarov).

[illegible]MOV, [illegible]; [illegible], N.F.; [illegible], A. [illegible]

Manufacture and testing of dolomite-[illegible] brick with resin binder. [illegible] no.[illegible] [illegible].

[illegible]

1. Vostochnyy institut ogneuporov (for [illegible]). 2. Zavod "Magnezit" (for Bugayev, Korzhenevskiy). 3. Chelyabinsk[illegible] metallurgicheskiy zavod (for Flerova).

SIMONOV, K.V.; GUREVICH, B.S.

Effect of the resin binder composition on the properties of resin-magnesite refractories. Ogneupory 31 no.1:39-44 '66. (MIRA 19:1)

1. Vostochnyy institut ogneuporov (for Simonov). 2. Vostochnyy uglekhimicheskiy institut (for Gurevich).

SIMONOV, L., podpolkovnik

Engineer support for the crossing of tanks. Voen. vest. 42 no.6:28-29 Je '62. (MIRA 15:6)
(Stream crossing, Military) (Tanks (Military science))

BOYM, Anatoliy Borisovich,; MENDELEVICH, Yakov Ayzikovich,; SIMONOV, Lev Antonovich,; SHITOV, B.I., retsenzent,; GOL'DBERG, G.I., red.; NAKHIMSON, V.A., red. izd-va,; EL'KIND, V.D., tekhn. red.

[Controlling radio interference due to automobiles, motorcycles, and tractors] Podavlenie radiopomekh, sozdavaemykh avtomobiliami, mototsiklami i traktorami. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 94 p. (MIRA 11:8)
(Radio--Interference)

SIMONOV, L. A.

"Application of Electrodynamic Analogy to Calculation of Hydraulic Turbines."
Nauchn. Zap. ESMMI 6 (1940)

SIMONOV, I. A.

RT-1466 (Construction of airfoils by the hodograph method) Postroenie profilei po godografu skorostei.
SO: Prikladnaia Matematika i Mekhanika 5(2): 193-222, 1941

[illegible], L.A., and S.A. KH[illegible]

Vliianie szhimaemosti na induktivnye skorosti dryla i vinta. (Prikladnaia matematika i mekhanika, 1944, v.8, no.2, p.89-98, bibliography)

Summary in English.

Title tr.: Effect of air compressibility on inductive velocities of an airfoil and propeller.

QA801.P7 1944

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

SIMONOV, L. A.

Simonov, L. A. Calculation of an aerofoil in a flow and plotting of an aerofoil according to a distribution of velocities over its surface. Appl. Math. Mech. [Akad. Nauk SSSR. Prikl. Mat. Mech.] 11, 69–84 (1947). (Russian. English summary)

Using the hodograph method, the author describes a procedure for the determination of a flow pattern around a profile approximating the given one. By the transformation $\zeta = f(z)$, $\zeta = |\zeta| \exp(i\theta)$, $z = x + iy$, the exterior of the profile is mapped into the exterior of the unit circle. The author considers the flow in the A-plane, $A = 1/V$, where V is the conjugate to the velocity vector. On the contour we have $A(\theta) = ds/d\theta = dx/d\theta + i\,dy/d\theta$, and the functions $\lambda_x = dx/d\theta$, $\lambda_y = dy/d\theta$ (being conjugate harmonic functions) can be expressed in terms of each other; $x(\theta)$, $y(\theta)$ and the speed $v(\theta)$ on the boundary of the profile can be expressed in terms of $\lambda_x(\theta)$ or $\lambda_y(\theta)$. The exact expressions (involving integrals) are approximated by finite sums. Tables of the values of $\lambda_x(\theta)$, $\lambda_y(\theta)$, $s(\theta)$ for a number of profiles are given. The problem of determining the airfoil from the given velocity components and the inverse problem are solved by making the necessary corrections for an auxiliary profile for which the tables are available. *S. Bergman.*

Source: Mathematical Reviews, Vol 7 No. 7

SIMONOV, L. A., KHRISTIANOVICH, S. A., MILLIONSHCHIKOV, M. D. and GAL'PERIN, V. G.

"Applied Gas Dynamics" 1948

[redacted], L. A.,

"Axial Compressors," Collection of Theoretical Papers in Aerodynamics, Moscow, Oborongiz, 1957.

This collection assembles a number of scientific reports, on theoretical aerodynamics, first printed in various publications between 1947 and 1952, and intended for research workers in advanced aerodynamics.

Simonov, L.A. Axial Compressors 463

The report, first published in 1950, describes a method for calculating axial compressors. In section 1 is presented a compilation of the basic formulas of gas dynamics which are necessary for further development. Section 2 defines the basic concepts relating to power, thrust, efficiency and compression ratio, and presents the derivation of the equation for the moments, which is the most important basis for the calculation of the blades. Sections 3 and 4 consider in detail the vortex system of a compressor, investigate the effect of free vortices, and gives a method for determining the velocity triangles. Section 5 and 6 discuss the selection of the configuration of the velocity triangles and the composition of the rotating part of the compressor. In section 7, methods are given for calculating cascades of profiles for given velocity triangles. Finally, a sample calculation of a compressor is given. The report contains 42 figures and 4 tables. There are

Collection of Theoretical Papers (Cont.) 823

5 references, of which 4 are Soviet and 1 German.

AVAILABLE: Library of Congress

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~~Card 33/33~~

KOLTON, Abram Yudovich; ETINBERG, Isaak El'yevich; SIMONOV, L.A., doktor tekhn. nauk, retsenzent; GUR'YEV, V.P., kand. tekhn. nauk, red.; GOFMAN, Ye.K., red. izd-va; POL'SKAYA, R.G., tekhn. red.

[Principles of the theory and hydrodynamical calculations of hydraulic turbines] Osnovy teorii i gidrodinamicheskogo rascheta vodianykh turbin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 357 p. (MIRA 11:10)
(Hydraulic turbines)

SIMONOV, L. A.

"JetThrust"

report presented at the 2nd International Congress of the International Council of Aeronautical Sciences, Zurich, Switzerland, 12-16 Sep 60

SUSKO, V.; SIMONOV, L.

Fast downward course of the IL-18 aircraft to low height. Letecky obzor 8 no.1:14-15 Ja '64.

8 (5)

AUTHORS: Simonov, L. I., Engineer, Shnitser, L. M., SOV/105-59-11-25/32
Candidate of Technical Sciences

TITLE: On the Duty Factor of Load Diagrams of Transformers

PERIODICAL: Elektrichestvo, 1959, Nr 11, pp 88-90 (USSR)

ABSTRACT: L. I. Simonov showed by an example that a formula given in the instructions of MES for determining the duty factor of the daily load curves is wrong in his opinion. L. M. Shnitser expresses his opinion on this subject and points out that the formula (1) mentioned by Simonov is given in these instructions. However, he shows that the admissible daily load of the transformer should be determined according to the diagram shown on the same page and not according to formula (1). This is explained more in detail and illustrated by two examples. There are 3 figures, 3 tables, and 1 Soviet reference.

Card 1/1

SIMONOV, L. L., STAROSTIN, Yu. S., and MOLOTNIKOV, E. V.

"Determination of optimum and maximum drawings during drawing of pipes from aluminum alloys on self-aligning mandrels" - showed that adhering to this method is 1.5--2.0 times greater than pressing during drawing on cylinderic mounting. This allows intensification of the process of drawing.

Report presented at the branch seminar on drawing of tube and aluminum alloys on self-aligning mandrels, Metallurgical Factory im V. I. Lenin, Kuybyshev, 24-28 June 1963

(Tsvet. Metally, No. 10, 1963 pp 84-85, author Starostin, Yu. S.
JPRS 24,651 19 May 1964

SIMONOV, L. I.

"Constructions of self-aligning mandrels of various dimensions and principles of their unification."

Report presented at the branch seminar on drawing of tube and aluminum alloys on self-aligning mandrels, Metallurgical Factory im V. I. Lenin, Kuybyshev, 24-28 June 1963

(Tsvet. Metally, No. 10, 1963 pp 84-85, Author Starostin, Yu. S.
JPRS 24,651 19 May 1964

ACC NR: AP6035917 (A) SOURCE CODE: UR/0413/66/000/020/0163/0163

INVENTOR: Bogdanov, S. A.; Kaloyev, A. V.; Makeyev, A. D.; Shipilevskiy, G. B.; Ponomarev, V. I.; Simonov, L. P.; Soshnikov, A. A.; Kalinovskiy, N. F.; Vaynshteyn, L. A.; Pann, L. A.; Kudel'skiy, V. A.; Skrypnik, I. A.

ORG: none

TITLE: Device for automatic control of a wheeled vehicle. Class 45, No. 187433 [announced by the State Union Scientific Research Tractor Institute (Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut); Khar'kov Tractor Plant (Khar'kovski. ..-traktornyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 163

TOPIC TAGS: agricultural machinery, [redacted], automatic control equipment, tractor, motor vehicle

ABSTRACT: An Author Certificate has been issued for a device for the automatic control of a wheeled vehicle, which includes a duplicating feeler, a feeler-deflection transducer, an electric gate valve, and a hydraulic steering-gear amplifier. To simplify the changeover to and from automatic control, it is equipped with a three-way cock with a handle. The cock's input is connected to a pump, one of its outputs is connected to a distributing hydraulic amplifier, and its second output is connected

UDC: 631.361.629.114.2-52

Card 1/2

ACC NR: AP6035917

to the electric gate valve. In order to smoothly change the rpm, between the pump and the cock's input is mounted a throttle. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 30Dec65/

Card 2/2

YEZHIKOV, N.N., inzh.; SIMONOV, L.V., inzh.: OLEYNIK, F.A., gornyy tekhnik

PML-9 loader. Gor. zhur. no.11:56 N '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.
(Mining machinery)

YEGOROV, A.Ye.; SIMONOV, L.V.; PISTUN, A.Ye.

Aligning strip steel. Metallurg 9 no.11:21-24 N '64. (MIRA 18:2)

1. Starshiy otzhigal'shchik tsekha beloy zhesti Magnitogorskogo metallurgicheskogo kombinata (for Yegorov). 2. Nachal'nik otdeleniya neprerybnogo otzhiga tsekha beloy zhesti Magnitogorskogo metallurgicheskogo kombinata (for Simonov). 3. Starshiy master-elektrik tsekha beloy zhesti Magnitogorskogo metallurgicheskogo kombinata (for Pistun).

SIMONOV, L.Yu., podpolkovnik, komandir artilleriyskogo divisiona.

How we achieve a high-level of coordination in subunits. Artill. zhur. no.2:39-43 F '58. (MIRA 11:3)
(Artillery drill and tactics)

SIMONOV, M.

AID P - 4693

Subject : USSR/Aeronautics - Civil aviation (materiel)

Card 1/2 Pub. 58 - 5/17

Authors : Simonov, M., Engineer, Monitor of the Glider Pilots' Group, Kazan Aviation Institute, G. Vorob'yev, Assistant Professor in charge of the Institute's Department of Designing and Construction of Aircraft, A. Pantyukhin, Secretary, Komsomol Committee of the Institute.

Title : New types of airplanes and helicopters must be created for Soviet sportsmen.

Periodical : Kryl. rod., 5, 6, My 1956

Abstract : The authors advocate the creation of a light jet plane for the training of students in DOSAAF organizations, as well as the creation of a certain number of jet and piston engine planes specially designed for achieving record performances. Also is recommended the setting up, at the primary DOSAAF organizations, of student designing and construction groups.

AID P - 4693

Kryl. rod., 5, 6, My 1956

Card 2/2 Pub. 58 - 6/17

Institution : None

Submitted : No date

SIMONOV, M., inzhener; VOROB'YEV, G., dotsent; PANTYUKHIN, A.

Create new sport airplanes and gliders. Kryl.rod. 7 no.5:6 My '56. (MLRA 9:8)

1. Rukovoditel' planernoy gruppy Kazanskogo aviatsionnogo instituta (for Simonov); 2. Zaveduyushchiy kafedroy konstruktsii i proyektirovaniya samoletov (for Vorob'yev); 3. Sekretar' komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi (for Pantyukhin). (Airplanes)

SIMONOV, M.

The KAI-19 glider. Kryl. rod. 14 no.12:22-24 D '63.
(MIRA 17:2)

POPOV,.inzhener; SIMONOV, M., inzhener.

Filters for clarification of fats. Mias.ind.SSSR 28 no.1:12-13 '57. (MLRA 10:3)

1. Kislovodskiy myasokombinat.
(Oils and fats, Edible) (Filters and filtration)

SIMONOV, M.; BOLKHOVITIN, A.; DEMCHENKO, D.; ANTONOV, V.

From Moscow right up to the boundaries. Izobr. i rats. no. 4:6-7 Ap '61. (MIRA 14:4)

1. Sekretar' Udmurtskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Simonov). 2. Starshiy inzhener Moskovskogo gorodskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Bolkhovitin). 3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Demchenko). 4. Predsedatel' respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Antonov).

(Technological innovations)

PYATKOVSKIY, G., inzh.-informator; IVANCHUK, V.; KZHAKHOV, V.; SIMONOV, M.; KHROMOV, K., zhurnalist (Baku); DUDETSKIY, E.; TRAVNIKOV, N.

We are living this way. Izobr. i rats. no.12:8-9 '63. (MIRA 17:2)

1. Trest "Kommunarskugol'", Luganskaya obl. (for Pyatkovskiy). 2. Sotrudnik oblastnoy gazety "Krasnyy Sever", Vologda (for Ivanchuk). 3. Starshiy inzh. Kazakhskogo respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Kzhakhov). 4. Sekretar' Udmurtskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, Izhevsk (for Simonov). 5. Nachal'nik otdela tekhniki bezopasnosti Lyuberetskogo zavoda imeni Ukhtomskogo (for Dudetskiy). 6. Korrespondent zhurnala "Izobretatel' i ratsionalizator" (for Travnikov).

DZHANPOLADYAN, L.; SIMONOV, M.; AGADZHANYAN, G., akademik; MANUKYAN, Kh.; MAMIKONYAN, K.; GABOYAN, M.; KURGINYAN, M., nauchnyy sotrudnik

Scientists and public workers train replacements. NTO 5 no.7: 10-19 Jl '63. (MIRA 16:8)

1. Predsedatel' Armyanskogo respublikanskogo soveta nauchno-tekhnicheskikh obshchestv (for Dzhanpoladyan). 2. Predsedatel' byuro po promyshlennosti komiteta obshchestvennoy aspirantury, chlen-korrespondent AN Armyanskoy SSR (for Simonov). 3. Predsedatel' byuro po sel'skomu khozyaystvu komiteta obshchestvennoy aspirantury i AN Armyanskoy SSR (for Agadzhanyan). 4. Direktor sovkhoza "Masis" (for Manukyan). 5. Nachal'nik tsekha Yerevanskogo khrompikovogo zavoda (for Mamikonyan). 6. Direktor leninakanskogo zavoda "Strommashina" (for Gaboyan). 7. Institut stroymaterialov i sooruzheniy (for Kurginyan).
(Armenia—Technical education)

L 26099-65 ENT(d)/ENT(1)/ENP(m)/ENT(m)/FA/ENG(v)/ENA(d)/T-2/ENP(h)/FCS(k)/ENA(1)
Pd-1/Pe-5/Pi-4 LBF

ACCESSION NR: AP4045830 S/0085/63/000/012/0022/0024

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B

AUTHOR: Simonov, M. (Deputy chief designer)

TITLE: The KAI-19: our gift to the fortieth anniversary of Soviet glider sport

SOURCE: Kry*l'ya rodiny*, no. 12, 1963, 22-24

TOPIC TAGS: glider design, friction drag, lift drag ratio, aspect ratio, aerodynamic tunnel/KAI-19 glider

ABSTRACT: The geometric and weight characteristics, strength, design, wing structure, and navigation-communication equipment of the KAI-19 glider are discussed. In order to reduce parasite drag, the designers reduced the fuselage surface, thus reducing its friction drag. The KAI-19 has a maximum lift/drag ratio of 45; minimum speed of descent of 0.52 m/sec. (1.67 m/sec. at 150 km/hr.); minimum speed without flaps of 59 km/hr; maximum speed of 250 km/hr; economic speed of 85 km/hr; economic speed on spiral glide with 45° banking of 78 km/hr; radius of spiral with 45° banking of 50 m; minimum speed of decent on spiral glide with 45° banking of 1.0 m/sec; minimum radius of spiral glide without flaps of 40 m; maximum lift/drag ratio with air brakes extended of 13.6. The wing, which is entirely metal, has a span of 20 m; an area of 14 m^2; and an aspect ratio of 28.6. The fuselage is 7.96 m long, 0.64 m wide, and 0.73 m high. The KAI-19

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was calculated for a strength corresponding to a ninefold overload. It was tested in a full-scale aerodynamic tunnel at 300 km/hr. to test for vibrations. The glider has a complete complex of equipment enabling it to fly in adverse meteorological conditions up to a height of 14,000 m. Fig. 1. of the Enclosure is a graph of the polar curves of the KAI-19 with and without ballast. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 01 SUB CODE: AC

NO REF SOV: 000 OTHER: 000

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L 26097-65
ACCESSION NR: AP4045830

ENCLOSURE: 01

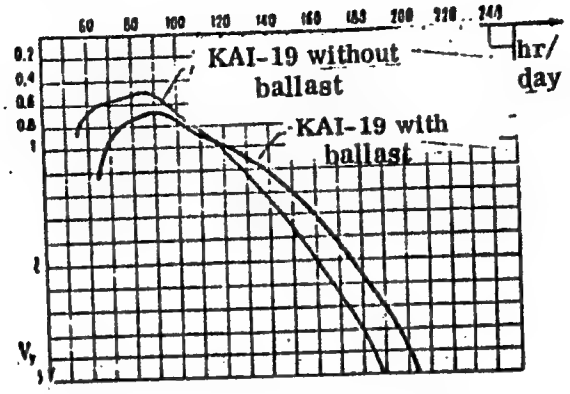


Fig. 1. Polar curves of the KAI-19 with ballast and without ballast.

Card 3/3

SIMONOV, M.A.; BELOV, N.V., akademik

Crystal structure of the Na, Zn, Cd- metasilicate $Na_4ZnCd[Si_2O_6]_2$. Dokl. AN SSSR 164 no.2:406-409 S '65. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet.

PAGE, Mikhail Konstantinovich; SIMONOV, M.I., dotsent, otv.red.; BLIKH, V.V., red.; SARANYUK, T.V., tekhred.

[Operator-analytical functions with one independent variable] Operatorno-analitychni funktsii odniiei nezalezhnoi zminnoi. Z peredmovoiu N.M.Bogoliubova. L'viv, Vyd-vo L'vivs'koho derzh.univ., 1959. 173 p. (MIRA 13:4)
(Functions, Analytic)

SIMONOV, M.I. [Symonov, M.I.] (Kiyev)

First period of the development of the theory of equations with partial derivatives of the first order. Ist.-mat.zbir. 2:5-21 '61. (MIRA 15:4)
(Differential equations, Partial)

[illegible], [illegible]; [illegible];
[illegible], [illegible]

[Work practices on the [illegible]-35 cars of [illegible] machines at the Isakogorka Lumber Transshipment [illegible] [illegible] raboty na [illegible] [illegible] [illegible] lesoperevalochnoi [illegible]. [illegible], [illegible], 1963. 16 p.
([illegible])

VOROB'YEV, Il'ya Vladimirovich; SIMONOV, Mikhail Nikiforovich; ZAKHAROV, Vladimir Vasil'yevich

[Handbook on the operation of the OK-35 and OK-66 bark-stripping machines] Rukovodstvo po ekspluatatsii okorochnykh stankov OK-35- i OK-66. Moskva, Lesnaia promyshlennost', 1965. 137 p. (MIRA 19:1)

GOBZA, R. N., Inzhener i, VEREVIN, F. P., Inzh., SIMONOV, M. V., Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya I Tekhnicheskikh Issledovaniy (KTIS) Mintyazhstroya

Issledovaniye Effecktivnosti Pyleosadochnykh Kamer NA Modelyakh

Page 52

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

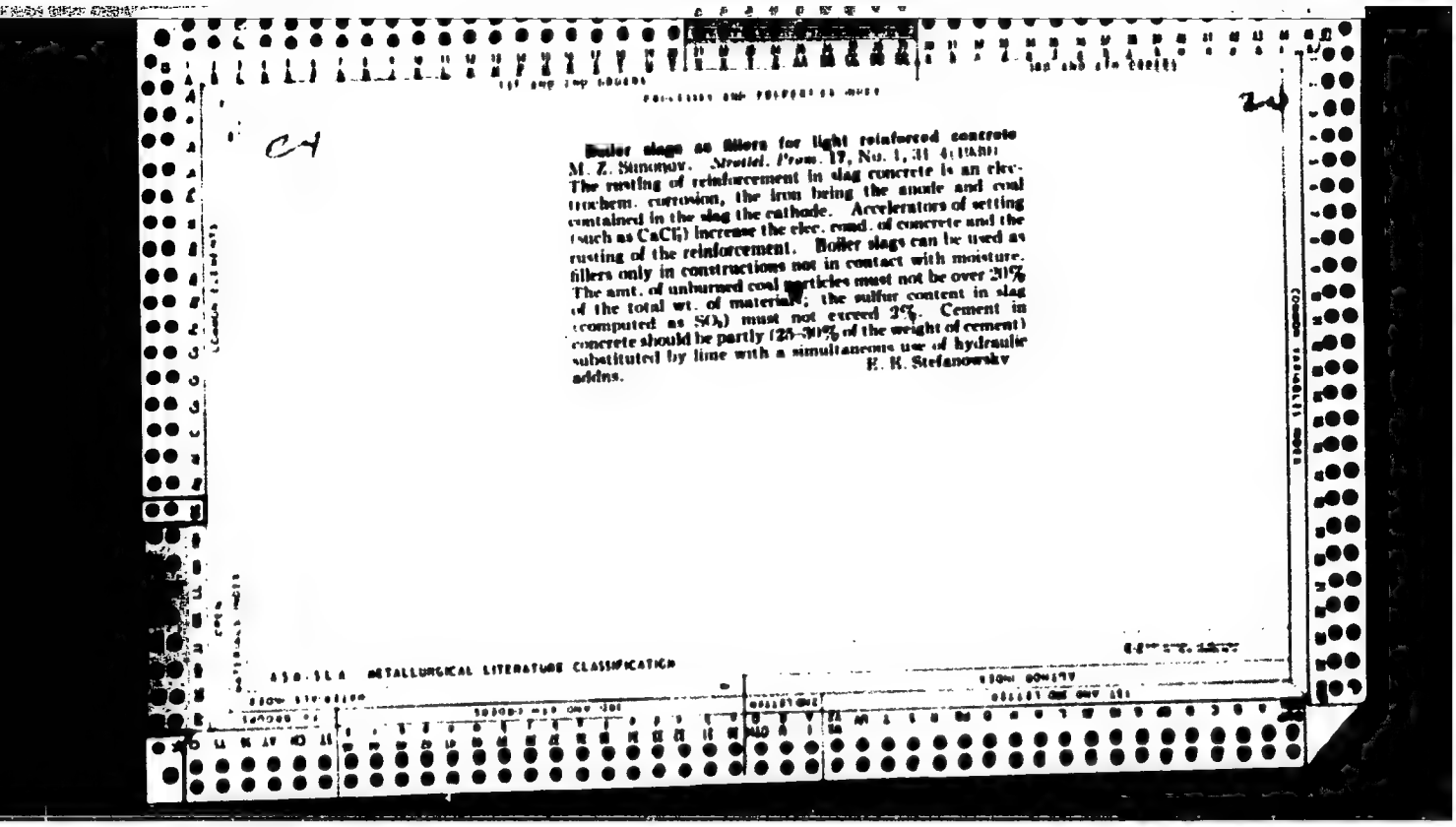
SIMONOV,M.V.

Metal cores. Lit. proizv. no.8:29 Ag'55. (MLRA 8:11)
(Coremaking)

VALUYSKIY, A.A.; SIMONOV, M.Ye.; SHAKHUNOV, V.M.

Determining the volume of reservoirs with various lithological and physical properties. Geol. nefti i gaza 7 no.11:28-33 N '63. (MIRA 17:8)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.



C4

Boiler slags as fillers for light reinforced concrete M. Z. Simonov. *Stroitel. Prom.* 17, No. 1, 31-4 (1939). The rusting of reinforcement in slag concrete is an electrochem. corrosion, the iron being the anode and coal contained in the slag the cathode. Accelerators of setting (such as $CaCl_2$) increase the elec. cond. of concrete and the rusting of the reinforcement. Boiler slags can be used as fillers only in constructions not in contact with moisture. The amt. of unburned coal particles must not be over 20% of the total wt. of material; the sulfur content in slag (computed as SO_3) must not exceed 2%. Cement in concrete should be partly (25-30% of the weight of cement) substituted by lime with a simultaneous use of hydraulic addns.

E. K. Stefanovskv

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

SIMONOV, M.Z.

Flexure calculations of reinforced concrete members on the basis of crack appearance [with summary in English]. Izv.AN Arm.SSR. Est.nauki no.3:79-100 '47. (MLRA 9:8)
(Reinforced concrete)

[illegible], I. T.

30278

Lyegkiy byeton na poristkh zapolnityelyakh i yego primyenyeniye. Trudy IV Vsyesoyuzn. konf-tsii po byeton i zhyelyezobyeton. Konstruktsiyam. Ch. 3 M.-L, 1959, s. 75-92.

SO: LETOPIS' NO. 34

SIMONOV, M.Z.; MATUZOV, T.G.

High-strength concrete based on porous fillers for thin-walled reinforced concrete assembly units. Izv.AN Arm.SSR.Ser.FMET nauk 5 no.1:59-65 '52. (MLRA 9:7)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR.

(Concrete, Reinforced)

SIMONOV, M.Z.; KARAPETYAN, K.S.

Plasters from diluted gypsum-clay mixtures and their volume variations. Izv.AN Arm.SSR.Ser.FMET nauk 5 no.1:71-79 '52. (MLRA 9:7)

1.Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR.

(Plaster)

SIMONOV, M.Z.

Elements of the theory of the mobility and compressibility of concrete mixtures. Izv.AN Arm.SSR.Ser.FMET nauk 6 no.3:75-106 My-Je '53. (MLRA 9:8)

1. Institut stroitel'nykh materialov i sooruzheniy AN Armyanskoy SSR.

(Concrete)

SIMONOV, M.Z.

Sedimentation in cement paste and possibilities of its control. Part 1.Role of sedimentation in the structural formation of concrete and current research tasks. Izv.AN Arm.SSR.Ser.FMET nauk 6 no.4:65-84 Jl-Ag '53. (MLRA 9:9)

1.Institut stroitel'nykh materialov i sooruzheniy AN Armyanskoy SSR. (Concrete)

SIMONOV, M.Z.

Concrete strength calculations. Izv. AN Arm.SSR Ser.FMET nauk 6 no.5/6:149-164 S-D '53. (MLRA 8:2)

1. Institut stroitel'nych materialov i sooruzheniy Akademii nauk Armyanskoy SSR.
(Concrete)

SIMONOV, M.Z.

Self-aeration of lightweight concretes. Izv. AN Arm. SSR. Ser. FMET nauk 7 no.5:67-89 S-O '54. (MIRA 8:7)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR. (Lightweight concrete)

SIMONOV, Mikhail Zakharyevich, laureat Stalinskoy premii, d-r tekhnicheskikh nauk, professor; IVANOV, O.M., kandidat tekhnicheskikh nauk; YEGOROVA, N.O., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Porous aggregate concrete and reinforced concrete] Beton i zhelezobeton na poristykh zapolniteliakh. Moskva, Gos. izd-ve lit-ry po stroit. i arkhitekture, 1955. 253 p. (MLRA 8:6)
(Lightweight concrete)

ZAKHAROV, L.A., redaktor; SIMONOV, M.Z., redaktor; KHUDAVERDYAN, V.M. redaktor; KAPLANYAN, M.A., tekhnicheskiy redaktor

[Proceedings of a conference on the theory of the technology of concretes] Trudy soveshchaniia po teorii tekhnologii betonov. Erevan, 1956. 359 p. (MIRA 10:4)

1. Akademiya nauk Armyanskoy SSR, Yerivan. Institut stroitel'nykh materialov i sooruzheniy.
(Concrete)

SIMONOV, M.Z., red.; KHUDAVERDYAN, V.M., red.; KAPLANYAN, M.A., tekhn.red.

[Lithoidal pumice concrete to be used for hydraulic structures] Gidrotekhnicheskii beton na litoidnoi pemze. Erevan, 1958. 293 p. (MIRA 12:11)

1. Akademiya nauk Armyanskoy SSR. Yerevan. Institut stroitel'nykh materialov i sooruzheniy. 2. Institut stroitel'nykh materialov i sooruzheniy AN Armyanskoy SSR (for Simonov, Khudaverdyan). (Lightweight concrete)

SOV/97-58-2-6/16

AUTHOR: Lelichenko, V.G., Engineer.

TITLE: Variation in Strength and Specific Weight of Termozit-concrete (without cement) in Relation to its Age. (Izmeneniye prochnosti i ob"yemnogo vesa bestsementnogo termozitobetona v zavisimosti ot yego vozrasta).

PERIODICAL: Beton i Zhelezobeton, 1958 Nr 2, pp 63-65.

ABSTRACT: In the factory imeni Il'icha in Zhdanov tests were carried out with building blocks taking into consideration the problem of hardening and the decreasing of a specific weight. These blocks were made of termozit-concrete. Tests were made with cubes 200x 200x200mm which were steam cured and after that protected in dry air conditions. The cubes were made from the following ingredients: Ground lime (according to GOST No 5803-51), calcium chloride (according to GOST 450-41 and finely ground granulated slag. To achieve an activated mix granulated slag is used with the content of 40% SaO+MgO and 4-6.5% of MnO. Its granulometric composition is given in Table 1. Table

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SOV/97/58/2/6/16

Variation in Strength and Specific Weight of Termozit-concrete (without cement) in Relation to its Age.

3 gives quantities of materials required for $1m^3$ of activated slag mix. Figure 1 illustrates a diagram of steam curing of termozit-concrete without cement. The strength of test cubes was investigated during the whole year. It was ascertained that in relation to the 28-day strength the 7-day strength of termozit concrete was 73%, after three months 126%, after four months 136%, after 6½ months 36% and after a year 147%. Table 3 gives values which are characteristic of the strength and specific weight of the termozit-concrete without cement. Table 4 shows values of the increasing strength of termozit-concrete and similar values arrived at by testing light and heavy concrete (see M.Z. Simonov, "Concrete and Reinforced Concrete made with Ordinary Mix" published by Gosstroyizdat in 1955). These tests showed that the values obtained were very similar to those obtained by using Professor B.G. Skramtayev's formula. Higher values are reached in the strength increase of termozit-concrete when the hardening takes place in dry conditions if the curing is prolonged. There are two figures and five tables.

Card 2/2 1. Concrete--Mechanical properties 2. Concrete--Physical properties
3. Concrete--Aging

97-58-5-5/14

AUTHOR: Simonov, M. Z., Professor, Corresponding Member of the AS, Armenian SSR, Matuzov, T.G., Candidate of Technical Sciences and Karapetyan, K.S. Candidate of Technical Sciences.

TITLE: Use of Fine, High Strength Concrete for Prestressed Reinforced Concrete Constructions (Primeneniye vysokoprochnykh melkozernistykh betonov dlya predvaritel'no napryazhennykh konstruktsiy.)

PERIODICAL: Beton i Zhelezobeton, 1958, No. 5, USSR, Pp 178-182.

ABSTRACT: Fine aggregate concrete based on quartz or pummice sands and Portland cement of 350 kg per cm^2 activity could produce high quality concrete suitable for prestressed constructions. Vibro-ground cement intensifies hardening of concrete in the initial stages and by that reduces the time during which reinforcement should be kept under tension. At the same time vibro-ground cement slightly increases shrinking. Fine aggregate concretes based on pit sand in comparison with concretes based on crushed sand have lower elasticity (35-50%) than values given in NiTU 123-55. These should be taken into account when evaluating deformations in prestressed constructions based on fine aggregates. Fine aggregate light concretes have slightly higher elasticity than light concretes based on porous sand and ballast. Shrinking of high

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Use of Fine, High Strength Concrete for Prestressed Reinforced Concrete Constructions.

quality fine aggregate concretes is many times higher than shrinking in concretes based on sand and ballast. Shrinking of fine aggregate concrete based on sand from pumice is 13% higher than shrinking in concretes based on fine aggregate and quartz sand. Calculations show that in prestressed constructions made from fine aggregate concrete where the grains do not exceed 5mm in size if no special gradation is performed and when 600kgs per m^3 cement is used the loss of pretensioning due to "sluggishness" could be higher than permissable values. High strength values of concrete are obtained by the use of cement with increased activity and slow mobility of concrete mix. Under these conditions the cement requirements are between 450-500kgs per m^3. Sizes of the aggregate depend on the proximity of the reinforcement bars and the thickness of the product. Careful granulation of aggregates is required. Table 1 gives values for hardening under controlled curing conditions during a three month period for concrete of various mixes and specific weights. Figure 1 illustrates graphs of the relationship of the strength of testing cubes made from fine concrete aggregate and the time. Table2 gives the values of the

Use of Fine, High StrengthConcrete for Prestressed Reinforced Concrete Constructions.

moduli of elasticity and also strength values of test cubes of cube and prism shapes. Figure 2 illustrates graphs of the moduli of elasticity of test cubes made from fine aggregate concrete and their crushing strengths. Figure 3 is a graph of the relationship of shrinking values of testing cubes based on small aggregate concreteand the time (24 hours) Figure 4 illustrates a similar graph but taken over a period of 5 months. Figure 5 illustrates a graph of the "sluggishness" of fine aggregate concrete Table 3 gives values for the "sluggishness" of tested concretes during a period of 145 days when the concretes were subjected to central compression of 60kgs per cm^2. These values were compared with those of I.I. Ulitskiy and I.A. Rusinov as published in Beton i Zhelezobeton 1956. No. 12. According to K.S. Karapetyan (Izvestiya AN Arm SSR, 1952, Vol 5, No. 4) the tuff concrete Mark 110 is used when intensity of 20kgs per cm^2 is expected. Table 4 gives values of losses measured in set periods taking place in centrally loaded elements - 150kgs per cm^2 - during releasing of reinforcement.

Card 3/3

1. Concrete--Applications 2. Concrete--Properties

SIMONOV, M.Z., MATUZOV, T.G.[deceased]

Using concrete prisms in determining the compressive and tensile strength of concrete. Izv. AN Arm.SSR.Ser. tekh. nauk 11 no. 3:31-36 '58. (MIRA 11:8)

1. Institut stroymaterialov i sooruzheniy Ministerstva stroitel'stva ArmSSR.

(Concrete--Testing)

NAZAROV, A.G.; PINADZHYAN, V.V.; SIMONOV, M.Z.

Reviews and bibliography. Izv. AN Arm.SSR. Ser.tekhn.nauk 11 no.4:75 '58. (MIRA 11:10)
(Bibliography--Technology)

SIMONOV, M.Z., doktor tekh.nauk, prof.; KARAPETYAN, K.S., kand.tekhn.nauk

Shrinkage and creep of lightweight concretes in prestressed construction elements. Bet. i zhel.-bet. no.10:450-454 O '60. (MIRA 13:10)

(Prestressed concrete)

SIMONOV, M.Z.; KARAPETYAN, K.S.

Designing and manufacturing reinforced concrete trellis posts for vineyards. Izv. AN Arm.SSR.Ser.tekh.nauk 13 no.3:58-61 '60. (MIRA 14:1)

(Viticulture—Equipment and supplies)

SIMONOV, M.Z., prof., doktor tekhn.nauk

"Production of concrete in large construction plants" by G.D.Petrov. Reviewed by M.Z.Simonov. Mekh. stroi. 17 no.12:24-25 D '60. (MIRA 13:12)

1. Chlen-korrespondent AN Armyanskoy SSR.
(Petrov, G.D.) (Concrete plants)

SIMONOV, M.Z.

"Concrete in major construction projects" by G. D. Petrov. Reviewed by M. Z. Simonov. Izv. AN Arm. SSR. Ser. tekh.nauk 14 no.2:59-61 '61. (MIRA 14:3)

(Concrete construction)
(Petrov, G. D.)

SIMONOV, M.Z., doktor tekhn.nauk; SARKISYAN, R.R., kand.tekhn.nauk; MANVELYAN, D.S., inzh.; MKHIKYAN, R.M., inzh.; GYURDZHYAN, A.R., inzh.; MALADZHYAN, P.A.

Manufacturing precast thin-walled articles by guniting. Mekh. stroi. 18 no.5:16-18 My '61. (MIRA 14:7)

1. Armyanskiy institut stroitel'nykh materialov.
(Reinforced concrete construction) (Gunite)

MIRIYEV, I.M., kand. tekhn. nauk; SIMONOV, M.Z., red.; SHTEYNGEL', A.S., red.; BAGIROVA, S., tekhn. red.

[Technology and properties of high-strength, fine concretes] Tekhnologiia i svoistva vysokoprochnykh melkozernistykh betonov. Baku, Azerneshr, 1961. 116 p. (MIRA 16:2)
(Concete--Testing)

SIMONOV, M. Z., doktor tekhn. nauk, prof.

The value of the coefficient of softening for porous aggregates. Stroi. mat. 8 no.9:34-36 S '62. (MIRA 15:10)

(Aggregates(Building materials)—Testing)

AKOPOV, A.A.; ATSAGORTSYAN, Z.A.; SIMONOV, M.Z.; STEPANYAN, V.A.; TER-AZAR'YEV, I.A., RODIN, B.M.; STUGAREV, A.S., kand. tekhn. nauk, nauchnyy red.; ZAYCHIKOVA, E.A., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Production of natural stone wall materials and lightweight aggregates]Proizvodstvo prirodnykh kamennykh stenovykh materialov i legkikh zapolnitelei; sostoianie i perspektivy razvitiia. Moskva, Gosstroiizdat, 1962. 211 p. (MIRA 15:12)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy. 2. Armyanskiy nauchno-issledovatel'nyy institut stroitel'nykh materialov i sooruzheniy (for Akopov, Atsagortsyan, Simonov, Stepanyan, Ter-Azar'yev). 3. Nauchno-issledovatel'skiy institut stroitel'nykh materialov i izdeliy Akademii stroitel'stva i arkhitektury Ukr. SSR (for Rodin).
(Building stones)
(Aggregates (Building materials))

SIMONOV, M.Z.; AKOPYAN, G.G.

New property of lithoid pumice. Dokl. AN Arm. SSR 36 no.1: 39-43 '63. (MIRA 17:1)

1. Institut stroitel'nykh materialov i sooruzheniy Gosstroya Armyanskoy SSR. 2. Chlen-korrespondent AN Armyanskoy SSR (for Simonov).

SIMONOV, M.Z.

New device and methods for investigating the properties of concrete mixes. Izv. AN Arm. SSR. Ser. tekh. nauk 17 no.3: 37-51 '64. (MIRA 17:12)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.

SIMONOV, M.Z.

Porous stone materials of the Armenian S.S.R. and prospects for their utilization. Izv. AN Arm. SSR. Nauki o zem. 17 no.5:25-38 '64. (MIRA17:10)

1. Armyanskiy institut stroymaterialov i sooruzheniy.

ASIRYAN, A.M.; SIMONOV, M.S., nauchnyy rukovoditel' temy, prof.

Study of two possibilities of using vacuum in concrete technology. Izv. AN Arm. SSR. Ser. tekh. nauk 18 no.1:57-70 '65. (MIRA 18:7)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.

SIMONOV, N.

Solenoid valve control diagram. Khol.tekh.33 no.2:61-62 Ap-Je '56. (MLRA 9:9)

(Refrigeration and refrigerating machinery)(Automatic control)